

Kreyn, M. G.
ON THE CHARACTERISTIC FUNCTION $\chi(\lambda)$ OF
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(Mathematics, TT, v. 35, no. 10)

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2. Differential equations.
Theory.
1. Kreyn, M. G.

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In this paper the author starts with the differential
system $(d^2\phi/dr^2) - V(r)\phi + 2\phi = 0$, $\phi(0;\lambda) = 1$,
 $\phi'(0;\lambda) = h$, where $(0 \leq r < r_\infty)$, h is a real number,
 $V(r)$ is a real continuous function on $(0, r_\infty)$ and λ is
a complex parameter. Then for a polynomial in λ
which is non-negative on the spectrum of this system
he develops an associated system and obtains formulas
for the solutions and the spectral function of the asso-
ciated system in terms of the solutions and spectral
function of the given system. Also considered is the
problem of determining potentials $V(r)$ of a given
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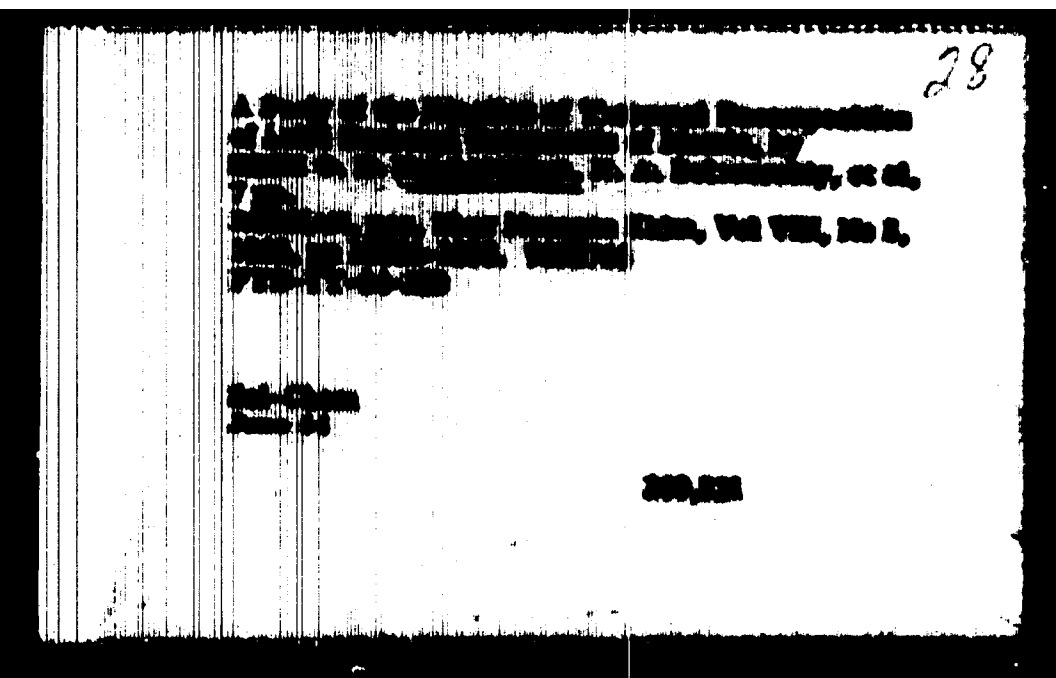
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DESCRIPTORS: *Liquids; *Benzenes; Solubility;
*Nitrogen; Solvent action; Gases.

The solubility of benzene in compressed nitrogen was studied at temperatures from 35° to 100°C and pressures up to 1100 kg./sq. cm. The shape of the solubility curve of the substance in the compressed gas is discussed qualitatively. It was proved experimentally that on the solubility curve of benzene in compressed nitrogen there is not only a minimum, but also a point of inflection. With increasing pressure, the partial molar volume of benzene dissolved in nitrogen passes through a minimum. (Author)

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DESCRIPTORS: *Acetic acid; *Butane; Phase studies;
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